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Queries 10742 through 10791.

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S10791	U	PGPB,USPT,EPAB,JPAB,DWPI	Markov and (dynamic with program\$) same (state same fixe\$1 with length)	2004-10-25 13:33:38	
S10790	U	PGPB,USPT,EPAB,JPAB,DWPI	(dynamic with program\$) same (state same fixe\$1 with length)	2004-10-25 13:33:06	
S10789	U	PGPB,USPT,EPAB,JPAB,DWPI	fix\$3 and length and ((Markov same state\$1 same feature\$1) and (compress\$3 same video))	2004-10-25 12:07:34	
S10788	U	PGPB,USPT,EPAB,JPAB,DWPI	length and ((Markov same state\$1 same feature\$1) and (compress\$3 same video))	2004-10-25 12:07:21	
S10787	U	PGPB,USPT,EPAB,JPAB,DWPI	(video with compress\$) and (fix\$3 near3 length) and (Markov near4 hidden)	2004-10-25 11:58:27	
S10786	U	PGPB,USPT,EPAB,JPAB,DWPI	(fix\$3 near3 length) and (Markov near4 hidden)	2004-10-25 11:57:56	
S10785	U	PGPB,USPT,EPAB,JPAB,DWPI	(fix\$3 near3 length) and ((Markov same state\$1 same feature\$1) and (compress\$3 same video))	2004-10-25 11:56:49	
S10784	U	PGPB,USPT,EPAB,JPAB,DWPI	((Markov same state\$1 same feature\$1) and (compress\$3 same video))	2004-10-25 11:44:41	
S10783	U	USPT	(5602595 or 5831690 or 6697098 or 6788710).pn.	2004-10-22 16:18:36	
S10782	U	PGPB,USPT,EPAB,JPAB,DWPI	(5602595 or 5831690 or 6697098 or 6788710).pn.	2004-10-22 16:18:27	
S10781	U	USPT	(5600677 or 5602595 or 5629958 or 5636251 or 6075569 or 6115537 or	2004-10-22 16:12:26	

		6081650 or 5987212).pn.	
<u>S10780</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(5600677 or 5602595 or	2004-10-
		5629958 or 5636251 or	22
		6075569 or 6115537 or	16:12:11
		6081650 or 5987212).pn.	
<u>S10779</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(supplemental same data same	2004-10-
		156 same packet) and VSB	22
			13:37:57
<u>S10778</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI 156 and 6788710.pn.	2004-10-
			22
			13:34:00
<u>S10777</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI pattern\$1 and 6788710.pn.	2004-10-
			22
			13:32:49
<u>S10776</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI pattern and 6788710.pn.	2004-10-
			22
			13:32:37
<u>S10775</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI header and 6788710.pn.	2004-10-
			22
			13:29:29
<u>S10774</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(Reed with Solomon same	2004-10-
		null) and 6788710.pn.	22
			13:13:17
<u>S10773</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI VSB and data field\$1	2004-10-
			22
			12:54:26
<u>S10772</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(vsb with (receiver or	2004-10-
		reception or decoder)) and	22
		((supplemental with data)	12:47:14
		same field)	
<u>S10771</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(supplemental\$1 same field\$1)	2004-10-
		and (VSB same (receiv\$ or	22
		decoder\$1))	12:41:21
<u>S10770</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI additional\$ and 6788710.pn.	2004-10-
			22
			12:31:20
<u>S10769</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI supplementa\$ and 6788710.pn.	2004-10-
			22
			12:30:17
<u>S10768</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI supplemental\$ and	2004-10-
		6788710.pn.	22
			12:30:07
<u>S10767</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI field and 6788710.pn.	2004-10-
			22
			12:07:03
<u>S10766</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(transmi\$ same field) and	2004-10-
		6788710.pn.	22
			12:06:50

<u>S10765</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(transmi\$ with field) and 6788710.pn.	2004-10-22 12:06:37
<u>S10764</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPImultiplex\$ and ((null with sequence\$1) and (vsb or vestigial) and decoding)	2004-10-21 15:18:43
<u>S10763</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI((null with sequence\$1) and (vsb or vestigial) and decoding)	2004-10-21 15:18:14
<u>S10762</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(data with field\$1) and MPEG\$ and ((VSB same (transmi\$ or communicat\$)) and null and multiplex\$3 and (additional\$3 or supplementa\$))	2004-10-21 13:42:34
<u>S10761</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPIIMPEG\$ and ((VSB same (transmi\$ or communicat\$)) and null and multiplex\$3 and (additional\$3 or supplementa\$))	2004-10-21 13:41:57
<u>S10760</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI((VSB same (transmi\$ or communicat\$)) and null and multiplex\$3 and (additional\$3 or supplementa\$))	2004-10-21 13:41:07
<u>S10759</u>	<u>U</u>	USPT frequency\$ and 6175592.pn.	2004-10-19 12:37:46
<u>S10758</u>	<u>U</u>	USPT (frequency\$ same components) and 6175592.pn.	2004-10-19 12:37:23
<u>S10757</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(decod\$3 and downscal\$3) and ((downsampl\$3 or downscal\$3 or down-scal\$3 or lower\$3) same video same (discard\$3 or delet\$3 or remov\$3) same (high near3 frequency))	2004-10-19 12:34:48
<u>S10756</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI((downsampl\$3 or downscal\$3 or down-scal\$3 or lower\$3) same video same (discard\$3 or delet\$3 or remov\$3) same (high near3 frequency))	2004-10-19 12:34:04
<u>S10755</u>	<u>U</u>	USPT (embed\$3 same pattern same compress\$3 same GOP\$1)	2004-10-18 12:25:27
<u>S10754</u>	<u>U</u>	USPT (5988863 or 6275531 or 5515377 or 5349383).pn.	2004-10-17 18:59:59
<u>S10753</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(5988863 or 6275531 or 5515377 or 5349383).pn.	2004-10-17

<u>S10752</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(color or chrominance) and 6275531.pn.	18:59:51 2004-10-17 18:34:47
<u>S10751</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI pattern\$1 and 5349383.pn.	2004-10-17 18:33:03
<u>S10750</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI pattern\$1 and 5515377.pn.	2004-10-17 18:32:33
<u>S10749</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI pattern\$1 and 6275531.pn.	2004-10-17 18:32:12
<u>S10748</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(user\$1 or client\$1 or customer\$1) and 6275531.pn.	2004-10-17 18:28:38
<u>S10747</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(user\$1 or client\$1 or customer\$1) and 5988863.pn.	2004-10-17 18:27:27
<u>S10746</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(user\$1 or client\$1 or customer\$1) and 5349383.pn.	2004-10-17 18:27:09
<u>S10745</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPIselection and 5515377.pn.	2004-10-17 18:25:17
<u>S10744</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(user\$1 or client\$1 or customer\$1) and 5515377.pn.	2004-10-17 18:24:55
<u>S10743</u>	<u>U</u>	PGPB,USPT,EPAB,JPAB,DWPI(user\$1 or client\$1 or customer\$1) and 5515377.pn.	2004-10-17 18:23:55
<u>S10742</u>	<u>U</u>	USPT JPEG and 6384846.pn.	2004-10-16 17:32:43

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L1: Entry 10 of 26

File: PGPB

May 1, 2003

DOCUMENT-IDENTIFIER: US 20030081937 A1

TITLE: Summarization of video content

Detail Description Paragraph:

[0039] It is to be understood that the temporal bounds of a particular type of "play" does not necessarily start or end at a particular instance, but rather at a time generally coincident with the start and end of the play or otherwise based upon, at least in part, a time (e.g., event) based upon a play. A summarization of the video is created by including a plurality of video segments, where the summarization includes fewer frames than the original video from which the summarization was created. A summarization that includes a plurality of the plays of the event provides the viewer with a shorted video sequence while permitting the viewer to still enjoy the event because most of the exciting portions of the video are provided, preferably in the same temporally sequential manner as in the original video. In addition, it is to be understood that although summarization often achieves compression at the same time, it is different from video coding which aims at representing the original video with less data. In fact, summarization may be considered more concerned about the compact representation of the "content" in the video, whereas video coding is more concerned about representing the video signal itself as accurately and as bandwidth-efficient as possible.

Detail Description Paragraph:

[0068] The aforementioned approach still relies on a detection stage to obtain the shots, and then uses a HMM-based module to do the inference. Another technique of using the HMM, which simultaneously addresses both shot-detection and high-level inference, is more suitable. The system may still use the four-state model in FIG. 11, assuming that each arc is associated with an observation vector. The technique works as follows. For parameter estimation, a feature vector is computed for each frame in training sequences. Each frame in the training sequences is labeled with one of the four states. Parameter estimation for the HMM may be done using a Baum-Welch algorithm, such as disclosed by L. R. Rabiner, "A Tutorial on Hidden Markov Models and Selected Applications in Speech Recognition", Proc. Of the IEEE, Vol.77, No. 2, pp.257-285, 1989. With the ground truth (state labeling) for each frame given, the system may compute an initial model from the training sequences, instead of using a random or ad hoc hand-picked initial model, as follows: 3 [i (0) = expectedfrequencyinstate S i attime t = 1 a _ ij (0) = expected#oftransitionsfromstate S i tostate S j expectednumberoftransitionsfromstate S i b _ ij (0) (k) = expected#oftransitionsfromstate i to j andobservingsymbol V k expectednumberoftransitionsfromstate i to j]

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